TRANSMARE® BIO M106

Polylactic Acid

Transmare Compounding B.V.

Message:

TRANSMARE® BIO M106 is a non-transparent granulate based on modified polylactic acid
Good oxidation-, colour- and molecular weight stability in the melt
Biodegradable,/Compostable: TRANSMARE® BIO M106 is based on materials that are certified according to DIN EN 13432:2000-12 and ASTM D 6400:1999
Predominantly based on renewable raw materials
TRANSMARE® BIO M106 can be provided in custom colours

General Information			
Features	Comstable Updatable resources Good color stability Biodegradable		
Agency Ratings	ASTM D 6400 EN 13432		
Appearance	Available colors		
Forms	Particles		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.25	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ISO 1133
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	70		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C, 4.00 mm, Injection Molded)	2600	MPa	ISO 527-2/50
Tensile Stress			ISO 527-2/50
Yield, 4.00mm, injection molding	49.0	MPa	ISO 527-2/50
Fracture, 4.00mm, injection molding	16.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield, 4.00mm, injection molding	2.7	%	ISO 527-2/50
Fracture, 4.00mm, injection molding	15	%	ISO 527-2/50
Flexural Modulus [1] (Injection Molded)	2300	MPa	ISO 178
Flexural Stress [2] (Injection Molded)	37.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1A

-40°C, injection molding	2.5	kJ/m²	ISO 179/1A
-20°C, injection molding	3.3	kJ/m²	ISO 179/1A
0°C, injection molding	4.5	kJ/m²	ISO 179/1A
23°C, injection molding	5.0	kJ/m²	ISO 179/1A
Notched Izod Impact			ISO 180/1A
-40°C, injection molding	3.0	kJ/m²	ISO 180/1A
-20°C, injection molding	4.0	kJ/m²	ISO 180/1A
0°C, injection molding	5.5	kJ/m²	ISO 180/1A
23°C, injection molding	6.4	kJ/m²	ISO 180/1A

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	50.0	°C	ISO 75-2/B
1.8 MPa, not annealed	48.0	°C	ISO 75-2/A
Vicat Softening Temperature	57.0	°C	ISO 306/A

Injection	Nominal Value	Unit
Drying Temperature - Desiccant Dryer	50.0	°C
Drying Time - Desiccant Dryer	4.0	hr
Dew Point - Desiccant Dryer	-40.0	°C
Suggested Max Moisture	0.30	%
Processing (Melt) Temp	150 - 190	°C

Injection instructions
Air Flow Rate: 120 m³/hr

NOTE	
1.	2.0 mm/min
2.	2.0 mm/min

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

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